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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 3992-89

PERMIT NO.: 1989-EN-3992

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS

DATE ISSUED: October 20, 1989

PREPARED BY: Cowhey, Gudmundson, Leder, Ltd.

SUBJECT: STONEY ISLAND RECLAMATION COMPANY -- Lift Station, Forcemain, and Sewer
Connection (MWRGC Calumet Treatment Plant)

PERMITTEE TO CONSTRUCT

Land and Lakes Company
123 North Northwest Highway
Post Office Box 778
Park Ridge, Illinois 60068-0778

Permit is hereby granted to the above designated permittee to construct water pollution control facilities described as follows:

A lift station, forcemain, and sewer connection to discharge approximately 75,000 gallons per day of pretreated wastewater from a nonhazardous liquid waste treatment facility permitted under Permit No. 1988-EN-1064 to Liquid Recovery Systems, Inc.

The lift station will be submersible type with dual stainless steel pumps rated at 180 gallons per minute at 26 feet TDH with 5 horsepower motors, float switch controls, alarm light, separate valve vault, and appurtenances.

The forcemain will consist of approximately 3720 linear feet of 6 inch ductile iron pipe.

The gravity line will consist of approximately 306 linear feet of 8 inch ductile iron pipe.

The sewer connection will discharge to an existing City of Chicago manhole on the west side of Stoney Island Avenue tributary to the MWRDGC Calumet Treatment Plant.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplement Permit.

Continued on Page 2

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

TGM:SB:rlc/3634k,83-84
cc: EPA - Maywood Region
Cowhey, Gudmundson, Leder, Ltd.
Record
Binds

DIVISION OF WATER POLLUTION CONTROL


Thomas G. McSwiggin, P.E.
Manager, Permit Section

EPA Region 5 Records Ctr.



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SPECIAL CONDITION 1: The issuance of this permit does not relieve the permittee of the responsibility of complying with 35 Ill. Adm. Code, Part 307 and/or the General Pretreatment Regulations (40 CFR 403) and any guidelines developed pursuant to Section 301, 306, or 307 of the Federal Clean Water Act of 1977.

SPECIAL CONDITION 2: The issuance of this permit does not relieve the permittee of the responsibility of complying with any limitations and provisions imposed by the Metropolitan Water Reclamation District of Greater Chicago and the City of Chicago on the operation of these permitted facilities.

SPECIAL CONDITION 3: The project specifications shall be revised as necessary to require watertight manhole covers and waterproofed manhole joints and connections as required by Title 35, Subtitle C, Chapter II Section 370.124(e).

SPECIAL CONDITION 4: All ductile iron pipe shall be tar (seal) coated and/or cement lined per ANSI A 21.4 (AWWA C-104).

SPECIAL CONDITION 5: Bedding classes A, B, or C, as described in ASTM C12-82 shall be used for all rigid pipe provided the proper strength pipe is used with the specified bedding to support the anticipated load.

SPECIAL CONDITION 6:

The leakage outward or inward (exfiltration or infiltration) shall not exceed the following limits in gallons per inch of pipe diameter per mile per day for any section of the system.

Exfiltration 240
Infiltration 200

An exfiltration or infiltration test shall be performed with a minimum positive head of 2 feet.



SEWER CONNECTION AUTHORIZATION
THE
METROPOLITAN SANITARY DISTRICT
OF GREATER CHICAGO
100 EAST ERIE, CHICAGO, ILLINOIS 60611

INSTRUCTIONS: Use only for direct connections to MSDGC facilities, or direct discharge into waterways within the City of Chicago. Submit typed forms in quadruplicate; complete all information or indicate non-applicability; submit four copies of location map, plot plan and direct connection details. (Additional material such as plans and profiles, design report, specifications, etc., which will describe the project more adequately, is desirable and may be required.) Address all correspondence to Local Sewer Systems Section; for assistance, telephone 751-5789.

1. NAME AND LOCATION

Name of project (as shown on Plans): South Stony Island Avenue Sanitary Sewer and Sewage Lift Station
Location: South Stony Island Ave. & East 122nd St.
Section 24 & 25, Township 37 N, Range 14 E. Name of Township Chicago
(Office Use Only: X _____, Y _____, Code _____)
Receiving MSDGC STP and/or Lift Station _____)

2. TYPE OF CONNECTION

Authorization is requested for connection to MSDGC interceptor (X); discharge into receiving waters (); name Calumet 17A, Extension A Relief Sewer.
Nature of discharge to MSDGC interceptor: sanitary sewage (), other (), describe treated liquid effluent. (Discharge of storm water is prohibited.) Nature of discharge to receiving waters: storm water (); cooling water (); other (), describe N/A.
(All discharges must meet applicable standards.)
(Office Use Only: Point of discharge to receiving waters: X _____, Y _____, DB _____)
Point of discharge to MSDGC: X _____, Y _____, Code _____, SB _____)

3. SANITARY SEWER SUMMARY

Pipe Size (inches)	Total Length (feet)	Pipe Material and Spec.	Joint Material and Spec.
6	3720	DIP ANSI-A-21.15	D.I.P. ANSI-A-21.11
12	306	E.S.V.C.P. ASTM C-700	E.S.V.C.P. ASTM C-425

4. APPROXIMATE TIME SCHEDULE

Construction schedule of proposed connection: Date construction starts: ASAP; completion date: 6-1-88. Project occupancy schedule: Date occupancy begins 6-1-88; 100% occupancy expected to be reached 12-1-88.

5. SITE INFORMATION

Sewer System proposed within project site is: combined (); consists of separate sanitary and/or storm sewer systems (X). Total area of project 101.6 acres; impervious area within project (paved, roofed, etc.) N/A acres. Manner of drainage: surface runoff (X); catch basin or inlets (); storm sewers provided (). Drainage is discharged directly to: existing storm sewers (); existing combined sewers (); receiving waterway (); name Existing roadside ditches. If project discharges directly or indirectly into a City combined sewer, the receiving combined sewer does (), does not () have an overflow. Overflow discharges to (name of waterway) N/A by means of _____. If connection to MSD interceptor is involved, indicate project distance to nearest City sewer: 3700 ft.; location S. Stony Island Ave., north side of the waterway

linking the Lake Calumet Harbor to the Calumet River

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BUILDING INFORMATION

Type of construction: Residential (), Commercial (), Light Industrial (), Manufacturing (), Recreational (), other Waste treatment facility

b. Residential: Number of buildings N/A; Total number of dwelling units _____; Estimated total population: _____.

c. Non-residential: Describe use of building non-hazardous liquid waste treatment
Product manufactured or process used: separation and recovery;
Number of buildings 1; Estimated number of employees 2; Estimated water usage 15 gpd; Percent of usage discharged as waste 100; Population equivalent (if based on BOD, use IPCB basis) 0.30.

7. WASTES DISCHARGED

Wastes discharged will consist of: domestic sewage only (); commercial waste (); industrial waste (X). If commercial waste is discharged, indicate method of control being provided N/A. Indicate if control is provided inside building (), outside (). Industrial waste is (X), is not (), produced by the intended use of building. (Unless permitted under the special conditions, discharge of industrial waste is prohibited.) If industrial waste is produced, submit

Schedule F; indicate method of disposal: Lift station & force main to MSD sanitary sewer.

CERTIFICATE BY PROJECT ENGINEER

I hereby certify that the project described herein has been designed in accordance with the requirements set forth in this application and all applicable ordinances, rules regulations, local, State and Federal laws and design criteria of the authorities having jurisdiction; that construction of the project will be in compliance with the data and plans submitted with this application; that approval will be obtained prior to making any changes that would affect capacity, maintenance, design requirements, service area or the conditions thereof.

Engineering Firm Cowhey Gudmundson Leder, Ltd. Telephone 312-773-2727
Address One Pierce Place City Itasca, IL zip 60143
Signature *Donald P. Demeck*, P.E. Date 12-14-87
(Name and Title)

CERTIFICATE BY APPLICANTS

I have read and thoroughly understand the conditions and requirements of this authorization, and agree to conform to the conditions thereof and other applicable requirements of the MSDGC and the City of Chicago. It is understood that construction hereunder, after the Authorization is granted, shall constitute acceptance by the applicant of any special conditions that may be placed hereon by the MSDGC. It is further understood that this application shall not constitute an authorization to connect until it is approved, signed and returned by the Chief Engineer of the MSDGC.

Title to Premises is held in Land Trust: Yes () No (X);
if yes, disclosure of beneficiaries is required.

Owner Srony Island Reclamation Co. Telephone 825-5000 Date 12-9-87
Address P.O. Box 778 Signature *James J. Cowhey*
Park Ridge, IL 60068 Name & Title James J. Cowhey, President

REVIEW AND APPROVAL BY THE CITY OF CHICAGO: *John McKenna* 3-15-88
Bureau of Sewers Date

SPECIAL CONDITIONS: This Authorization is issued subject to the General Conditions hereof and to the following Special Conditions:

PE SEAL REVIEW AND APPROVAL BY MSDGC: _____ Date _____
Local Sewer Systems
APPROVAL FOR ISSUE: _____ Date _____
Chief Engineer

SCHEDULE G - TREATMENT OR PRETREATMENT FACILITIES

PROJECT INFORMATION:

Name of Project South Stony Island Ave. Sanitary Sewer Extension and Sewage Lift Station

Location of Plant S. Stony Island Ave. & East 122nd St.
(Street address or with respect to two major streets.)

Municipality Chicago
(Township if unincorporated)

Section 24, Township 37 N, Range 14 E

2. TREATMENT FACILITIES AND PROCESSES:

a. Type of wastes to be treated: oils, fats, or greases (X); pH (); solids, sludge (X); heavy metals (); cyanide (); temperature (); domestic (); other, specify _____.

b. Describe method(s) of waste treatment to be used: _____

Operation is continuous ()/batch (). No. of batches/day _____; no. of shifts/day _____.

Submit a plan, schematic flow diagram, and piping layout through all treatment units showing size, volumes, retention times, loadings, settling rates, weir overflow rates, instrumentation, and other pertinent design information. Include hydraulic profiles and description of monitoring systems.

3. WASTE CHARACTERISTICS: Submit Schedule F - Characteristics of Waste Discharges.**4. WASTE FLOWS:**

Design loading: average 35,000 gpd; maximum 150,000 gpd; minimum 35,000 gpd. If treatment works are existing, loading (last 12 months) average N/A gpd; maximum N/A gpd.

Equipment used in determining above flows N/A.

Discharge flow is existing (); will begin on 6-1-88; is to: MSDGC Interceptor (X); local sewer (), sanitary (), storm (), combined (); waterway (),

identify Calumet 17A. Discharge pipe size: 6 inches.

Extension A Relief Sewer
(FOR OFFICE USE: Receiving MSDGC Treatment Plant and/or Lift Station _____.)

5. MANUFACTURING PROCESS:

a. Narrative description of process: Dewatering & solidification of non-hazardous liquid waste.

b. Principal raw materials: Oil and water, food process fats and grease, misc. liquids (paint sludge, adhesive sludge, tank washings, filter sludge), soap and laundry waste.

c. Principal products: Nonhazardous solids and sludges to be landfilled. Water to sewer oil recovered, fats & grease recovered.

d. Submit schematic flow diagram of manufacturing process.

DRAINAGE FACILITIES:

Submit a complete contour drainage plan showing all storm sewers and drainage structures within the property. Also show all sanitary sewerage within the property.

WASTE STREAMS NOT DISCHARGED TO SEWERS:

Specify waste streams which are not discharged to sewers; sludge () waste oils (), cooling water (), pickle liquors (), other _____.

Describe methods of disposal or treatment of the above stream(s). (Additional Permits for disposal of these streams may be required; inquiries as to the need for Permits should be made to the Illinois Environmental Protection Agency and the Metropolitan Sanitary District of Greater Chicago.)

8. FLOODING:

Are the treatment works within flood plain? Yes () No (X). If yes, complete the following: maximum flood elevation of record (USGS datum) is N/A ft.; elevation of lowest opening (USGS datum) is N/A ft.
The following provisions have been made to eliminate the flooding hazard:

N/A

9. EMERGENCY OPERATION:

Describe provisions for operation during power failures, flooding, peak loads, equipment failure, maintenance shut-downs and other emergencies (attach additional sheets if necessary).

10. OTHER PERMITS: List Permits previously issued for this facility:

<u>Agency</u>	<u>Permit No.</u>	<u>Date Issued</u>
IEPA (Div. of Air Pollution Control)	031600FEP	10-21-86
IEPA (Div. of Water Pollution Control)	1986-EE-1314	10-21-86
IEPA (Div. of Land Pollution Control)	1986-133-SP	10-21-86